

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/538,471
Source: PCT
Date Processed by STIC: 06-28-2005

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: 101538,471

CRF Edit Date: 06-28-2005
Edited by: YF

Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

Corrected the SEQ ID NO. Sequence numbers edited were:

Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

Deleted: invalid beginning/end-of-file text ; page numbers

Inserted mandatory headings/numeric identifiers, specifically:

Moved responses to same line as heading/numeric identifier, specifically:

Other:
MOVED OVERLAPED <221> to <220> to the next line, as <220> does not require any response

**Raw Sequence Listing before editing,
for reference only**



PCT

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/538,471

DATE: 06/28/2005
TIME: 08:40:16

Input Set : A:\PTO.RJ.txt
Output Set: N:\CRF4\06282005\J538471.raw

3 <110> APPLICANT: Balakireva, Larissa
 5 <120> TITLE OF INVENTION: MOLECULES INHIBITING HEPATITIS C VIRUS PROTEIN SYNTHESIS AND
 METHOD FOR
 6 SCREENING SAME
 8 <130> FILE REFERENCE: 1759.200
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/538,471
 C--> 11 <141> CURRENT FILING DATE: 2005-06-03
 11 <150> PRIOR APPLICATION NUMBER: PCT/FR03/03675
 12 <151> PRIOR FILING DATE: 2003-12-11
 14 <150> PRIOR APPLICATION NUMBER: FR0215718
 15 <151> PRIOR FILING DATE: 2002-12-12
 17 <160> NUMBER OF SEQ ID NOS: 16
 19 <170> SOFTWARE: PatentIn version 3.1
 21 <210> SEQ ID NO: 1
 22 <211> LENGTH: 326
 23 <212> TYPE: DNA
 24 <213> ORGANISM: Artificial Sequence
 26 <220> FEATURE:
 W--> 27 <221> NAME/KEY: HCV
 28 <222> LOCATION: 40..372
 29 <223> OTHER INFORMATION: corresponds to IRES sequence of HCV
 31 <400> SEQUENCE: 1
 33 ctccccctgtg aagaactact gtttcacgc agaaagcgct tagccatggc gtttagtatga 60
 35 gtgtcgtgca gcctccagga cccccccctcc cgggagagcc atatgtggct gcgaaaccgg 120
 37 ttagtacacc ggaattgcca ggatgaccgg gtcctttctt gatcaaccc gctcaatgcc 180
 39 tggagatttg ggcgtcccccc cgcgagactg ctatccgagt agtgtgggt cgccaaaggc 240
 41 cttgtggta tgcctgatag ggtgcttgcg agtgcggccgg gaggtctcgta agaccgtgca 300
 43 tcatgagcac aaatccctaaa gaaaaaa 326
 46 <210> SEQ ID NO: 2
 47 <211> LENGTH: 80
 48 <212> TYPE: DNA
 49 <213> ORGANISM: Artificial Sequence
 51 <220> FEATURE:
 W--> 52 <221> NAME/KEY: HCV
 53 <222> LOCATION: 40..119
 54 <223> OTHER INFORMATION: corresponds to a portion (region II) of HCV IRES sequence
 56 <400> SEQUENCE: 2
 58 ctccccctgtg aggaactact gtttcacgc agaaagcgct tagccatggc gtttagtatga 60
 60 gtgttgcgtgca gcctccagga 80
 63 <210> SEQ ID NO: 3
 64 <211> LENGTH: 37
 65 <212> TYPE: DNA
 66 <213> ORGANISM: Artificial Sequence
 68 <220> FEATURE:

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/538,471

DATE: 06/28/2005

TIME: 08:40:16

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\06282005\J538471.raw

W--> 69 <221> NAME/KEY: HCV
 70 <222> LOCATION: 56..92
 71 <223> OTHER INFORMATION: corresponds to a portion (consensus sequence) of HCV IRES sequence

73 <400> SEQUENCE: 3
 75 tactgtcttc acgcagaaaag cgtcttagcca tggcggtt 37
 78 <210> SEQ ID NO: 4
 79 <211> LENGTH: 814
 80 <212> TYPE: PRT
 81 <213> ORGANISM: Artificial Sequence
 83 <220> FEATURE:

W--> 84 <221> NAME/KEY: p116
 85 <222> LOCATION: 1..814
 86 <223> OTHER INFORMATION: corresponds to p116 subunit of eIF3
 88 <400> SEQUENCE: 4

90 Met Gln Asp Ala Glu Asn Val Ala Val Pro Glu Ala Ala Glu Glu Arg
 91 1 5 10 15
 94 Ala Glu Pro Gly Gln Gln Gln Pro Ala Ala Glu Pro Pro Pro Ala Glu
 95 20 25 30
 98 Gly Leu Leu Arg Pro Ala Gly Pro Gly Ala Pro Glu Ala Ala Gly Thr
 99 35 40 45
 102 Glu Ala Ser Ser Glu Glu Val Gly Ile Ala Glu Ala Gly Pro Glu Pro
 103 50 55 60
 106 Glu Val Arg Thr Glu Pro Ala Ala Glu Ala Ala Ala Ser Gly Pro
 107 65 70 75 80
 110 Ser Glu Ser Pro Ser Pro Pro Ala Ala Glu Glu Leu Pro Gly Ser His
 111 85 90 95
 114 Ala Glu Pro Pro Val Pro Ala Gln Gly Glu Ala Pro Gly Glu Gln Ala
 115 100 105 110
 118 Arg Asp Glu Arg Ser Asp Ser Arg Ala Gln Ala Val Ser Glu Asp Ala
 119 115 120 125
 122 Gly Gly Asn Glu Gly Arg Ala Ala Glu Ala Glu Pro Arg Ala Leu Glu
 123 130 135 140
 126 Asn Gly Asp Ala Asp Glu Pro Ser Phe Ser Asp Pro Glu Asp Phe Val
 127 145 150 155 160
 130 Asp Asp Val Ser Glu Glu Leu Leu Gly Asp Val Leu Lys Asp Arg
 131 165 170 175
 134 Pro Gln Glu Ala Asp Gly Ile Asp Ser Val Ile Val Val Asp Asn Val
 135 180 185 190
 138 Pro Gln Val Gly Pro Asp Arg Leu Glu Lys Leu Lys Asn Val Ile His
 139 195 200 205
 142 Lys Ile Phe Ser Lys Phe Gly Lys Ile Thr Asn Asp Phe Tyr Pro Glu
 143 210 215 220
 146 Glu Asp Gly Lys Thr Lys Gly Tyr Ile Phe Leu Glu Tyr Ala Ser Pro
 147 225 230 235 240
 150 Ala His Ala Val Asp Ala Val Lys Asn Ala Asp Gly Tyr Lys Leu Asp
 151 245 250 255
 154 Lys Gln His Thr Phe Arg Val Asn Leu Phe Thr Asp Phe Asp Lys Tyr
 155 260 265 270
 158 Met Thr Ile Ser Asp Glu Trp Asp Ile Pro Glu Lys Gln Pro Phe Lys

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/538,471

DATE: 06/28/2005
TIME: 08:40:16

Input Set : A:\PTO.RJ.txt
Output Set: N:\CRF4\06282005\J538471.raw

159	275	280	285	
162	Asp Leu Gly Asn Leu Arg Tyr Trp Leu Glu Glu Ala Glu Cys Arg Asp			
163	290	295	300	
166	Gln Tyr Ser Val Ile Phe Glu Ser Gly Asp Arg Thr Ser Ile Phe Trp			
167	305	310	315	320
170	Asn Asp Val Lys Asp Pro Val Ser Ile Glu Glu Arg Ala Arg Trp Thr			
171	325	330	335	
174	Glu Thr Tyr Val Arg Trp Ser Pro Lys Gly Thr Tyr Leu Ala Thr Phe			
175	340	345	350	
178	His Gln Arg Gly Ile Ala Leu Trp Gly Gly Glu Lys Phe Lys Gln Ile			
179	355	360	365	
182	Gln Arg Phe Ser His Gln Gly Val Gln Leu Ile Asp Phe Ser Pro Cys			
183	370	375	380	
186	Glu Arg Tyr Leu Val Thr Phe Ser Pro Leu Met Asp Thr Gln Asp Asp			
187	385	390	395	400
190	Pro Gln Ala Ile Ile Ile Trp Asp Ile Leu Thr Gly His Lys Lys Arg			
191	405	410	415	
194	Gly Phe His Cys Glu Ser Ser Ala His Trp Pro Ile Phe Lys Trp Ser			
195	420	425	430	
198	His Asp Gly Lys Phe Phe Ala Arg Met Thr Leu Asp Thr Leu Ser Ile			
199	435	440	445	
202	Tyr Glu Thr Pro Ser Met Gly Leu Leu Asp Lys Lys Ser Leu Lys Ile			
203	450	455	460	
206	Ser Gly Ile Lys Asp Phe Ser Trp Ser Pro Gly Gly Asn Ile Ile Ala			
207	465	470	475	480
210	Phe Trp Val Pro Glu Asp Lys Asp Ile Pro Ala Arg Val Thr Leu Met			
211	485	490	495	
214	Gln Leu Pro Thr Arg Gln Glu Ile Arg Val Arg Asn Leu Phe Asn Val			
215	500	505	510	
218	Val Asp Cys Lys Leu His Trp Gln Lys Asn Gly Asp Tyr Leu Cys Val			
219	515	520	525	
222	Lys Val Asp Arg Thr Pro Lys Gly Thr Gln Gly Val Val Thr Asn Phe			
223	530	535	540	
226	Glu Ile Phe Arg Met Arg Glu Lys Gln Val Pro Val Asp Val Val Glu			
227	545	550	555	560
230	Met Lys Glu Thr Ile Ile Ala Phe Ala Trp Glu Pro Asn Gly Ser Lys			
231	565	570	575	
234	Phe Ala Val Leu His Gly Glu Ala Pro Arg Ile Ser Val Ser Phe Tyr			
235	580	585	590	
238	His Val Lys Asn Asn Gly Lys Ile Glu Leu Ile Lys Met Phe Asp Lys			
239	595	600	605	
242	Gln Gln Ala Asn Thr Ile Phe Trp Ser Pro Gln Gly Gln Phe Val Val			
243	610	615	620	
246	Leu Ala Gly Leu Arg Ser Met Asn Gly Ala Leu Ala Phe Val Asp Thr			
247	625	630	635	640
250	Ser Asp Cys Thr Val Met Asn Ile Ala Glu His Tyr Met Ala Ser Asp			
251	645	650	655	
254	Val Glu Trp Asp Pro Thr Gly Arg Tyr Val Val Thr Ser Val Ser Trp			
255	660	665	670	

RAW SEQUENCE LISTING DATE: 06/28/2005
 PATENT APPLICATION: US/10/538,471 TIME: 08:40:16

Input Set : A:\PTO.RJ.txt
 Output Set: N:\CRF4\06282005\J538471.raw

258 Trp Ser His Lys Val Asp Asn Ala Tyr Trp Leu Trp Thr Phe Gln Gly
 259 675 680 685
 262 Arg Leu Leu Gln Lys Asn Asn Lys Asp Arg Phe Cys Gln Leu Leu Trp
 263 690 695 700
 266 Arg Pro Arg Pro Pro Thr Leu Leu Ser Gln Glu Gln Ile Lys Gln Ile
 267 705 710 715 720
 270 Lys Lys Asp Leu Lys Lys Tyr Ser Lys Ile Phe Glu Gln Lys Asp Arg
 271 725 730 735
 274 Leu Ser Gln Ser Lys Ala Ser Lys Glu Leu Val Glu Arg Arg Arg Thr
 275 740 745 750
 278 Met Met Glu Asp Phe Arg Lys Tyr Arg Lys Met Ala Gln Glu Leu Tyr
 279 755 760 765
 282 Met Glu Gln Lys Asn Glu Arg Leu Glu Leu Arg Gly Gly Val Asp Thr
 283 770 775 780
 286 Asp Glu Leu Asp Ser Asn Val Asp Asp Trp Glu Glu Glu Thr Ile Glu
 287 785 790 795 800
 290 Phe Phe Val Thr Glu Glu Ile Ile Pro Leu Gly Asn Gln Glu
 291 805 810
 294 <210> SEQ ID NO: 5
 295 <211> LENGTH: 106
 296 <212> TYPE: PRT
 297 <213> ORGANISM: Artificial Sequence
 299 <220> FEATURE:
 W--> 300 <221> NAME/KEY: p116
 301 <222> LOCATION: 175..279
 302 <223> OTHER INFORMATION: corresponds to a portion (RRM) of eIF3 p116 subunit
 304 <400> SEQUENCE: 5
 306 Met Asp Arg Pro Gln Glu Ala Asp Gly Ile Asp Ser Val Ile Val Val
 307 1 5 10 15
 310 Asp Asn Val Pro Gln Val Gly Pro Asp Arg Leu Glu Lys Leu Lys Asn
 311 20 25 30
 314 Val Ile His Lys Ile Phe Ser Lys Phe Gly Lys Ile Thr Asn Asp Phe
 315 35 40 45
 318 Tyr Pro Glu Glu Asp Gly Lys Thr Lys Gly Tyr Ile Phe Leu Glu Tyr
 319 50 55 60
 322 Ala Ser Pro Ala His Ala Val Asp Ala Val Lys Asn Ala Asp Gly Tyr
 323 65 70 75 80
 326 Lys Leu Asp Lys Gln His Thr Phe Arg Val Asn Leu Phe Thr Asp Phe
 327 85 90 95
 330 Asp Lys Tyr Met Thr Ile Ser Asp Glu Trp
 331 100 105
 334 <210> SEQ ID NO: 6
 335 <211> LENGTH: 33
 336 <212> TYPE: DNA
 337 <213> ORGANISM: Artificial Sequence
 339 <220> FEATURE:
 340 <221> NAME/KEY: primer_bind
 341 <222> LOCATION: 1..33
 342 <223> OTHER INFORMATION: HCV RRM 5' primer (RRMfwd)

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/538,471

DATE: 06/28/2005
TIME: 08:40:16

Input Set : A:\PTO.RJ.txt
Output Set: N:\CRF4\06282005\J538471.raw

344 <400> SEQUENCE: 6
346 catatggatc ggccccagga agcagatgga atc 33
349 <210> SEQ ID NO: 7
350 <211> LENGTH: 33
351 <212> TYPE: DNA
352 <213> ORGANISM: Artificial Sequence
354 <220> FEATURE:
355 <221> NAME/KEY: primer_bind
356 <222> LOCATION: 1..33
357 <223> OTHER INFORMATION: HCV RRM 3' primer (RRMrev)
359 <400> SEQUENCE: 7
361 gtgctcgagc cactcgac tgatcgatata 33
364 <210> SEQ ID NO: 8
365 <211> LENGTH: 29
366 <212> TYPE: DNA
367 <213> ORGANISM: Artificial Sequence
369 <220> FEATURE:
370 <221> NAME/KEY: primer_bind
371 <222> LOCATION: 1..29
372 <223> OTHER INFORMATION: HCV IRES 5' primer (IRESfwd)
374 <400> SEQUENCE: 8
376 acccgctagcc tccctgtga ggaactact 29
379 <210> SEQ ID NO: 9
380 <211> LENGTH: 46
381 <212> TYPE: DNA
382 <213> ORGANISM: Artificial Sequence
384 <220> FEATURE:
385 <221> NAME/KEY: primer_bind
386 <222> LOCATION: 1..46
387 <223> OTHER INFORMATION: HCV IRES 3' primer (IRESrev)
389 <400> SEQUENCE: 9
391 gaaagctttt ttcttgagg tttaggattt gtgctcatga tgcacg 46
394 <210> SEQ ID NO: 10
395 <211> LENGTH: 95
396 <212> TYPE: DNA
397 <213> ORGANISM: Artificial Sequence
399 <220> FEATURE:
400 <221> NAME/KEY: primer_bind
401 <222> LOCATION: 1..95
402 <223> OTHER INFORMATION: primer IIIabc fwd which corresponds to T7 polymerase promoter
+ 139-215 of
403 HCV (regions IIIa-IIIb)
405 <400> SEQUENCE: 10
407 taatacgact cactatagg tagtggctg cggaaccgg gactacaccg gaattgccag 60
409 gacgaccggg tccttcttg gataaaccgg ctcaa 95
412 <210> SEQ ID NO: 11
413 <211> LENGTH: 60
414 <212> TYPE: DNA
415 <213> ORGANISM: Artificial Sequence
417 <220> FEATURE:

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 06/28/2005
PATENT APPLICATION: US/10/538,471 TIME: 08:40:17

Input Set : A:\PTO.RJ.txt
Output Set: N:\CRF4\06282005\J538471.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:10; Line(s) 402

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/538,471

DATE: 06/28/2005

TIME: 08:40:17

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\06282005\J538471.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application No
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:27 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:1
L:52 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:2
L:69 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:3
L:84 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:4
L:300 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:5